

WHAT IS CLAIMED IS:

1. A data processing apparatus that is used by being  
connected via a bus device to a central processing apparatus  
5 that starts an ID process for identifying the data processing  
apparatus when the bus device is initialized, the apparatus  
comprising:

a connection-detection device for detecting whether or  
not said data processing apparatus is connected to said central  
10 processing apparatus via said bus device;

a state-change detection device for detecting whether  
or not the processing state of said data processing apparatus  
changes while said data processing apparatus is connected to  
said central processing apparatus; and

15 a bus initialization device for initializing said bus  
device when change in said processing state is detected.

2. The data processing apparatus according to claim 1  
wherein;

20 change in said processing state is the mounting of a data  
recording medium in said data processing apparatus,

said state-change detection device detects whether or  
not said recording medium is mounted in said data processing  
apparatus, and

25 said bus initialization device initializes said bus  
device when said recording medium is mounted in said data  
processing apparatus.

3. The data processing apparatus according to claim 2  
30 wherein

said data processing that uses said recording medium  
performs at least any one of the processes of:

outputting data that are recorded on said recording medium to said central processing apparatus via said bus device, and

recording data that are output from said central  
5 processing apparatus to said recording medium via said bus device.

4. The data processing apparatus according to claim 1, wherein

10 said bus device is a serial bus complies to the IEEE 1394 standard, and

said initialization is a bus reset according to the IEEE1394 standard.

15 5. A data processing method for a data processing apparatus that is used by being connected via a bus device to a central processing apparatus that starts an ID process for identifying the data processing apparatus when the bus device is initialized, the method comprising:

20 a connection-detection process for detecting whether or not said data processing apparatus is connected to said central processing apparatus via said bus device;

a state-change detection process for detecting whether or not the processing state of said data processing apparatus  
25 changes while said data processing apparatus is connected to said central processing apparatus; and

a bus initialization process for initializing said bus device when change in said processing state is detected.

30 6. The data processing method according to claim 5, wherein change in said processing state is the mounting of a data recording medium in said data processing apparatus,

said state-change detection process detects whether or not said recording medium is mounted in said data processing apparatus, and

said bus initialization process initializes said bus device when said recording medium is mounted in said data processing apparatus.

7. The data processing method according to claim 6 wherein said data processing that uses said recording medium performs at least any one of the processes of:

outputting data that are recorded on said recording medium to said central processing apparatus via said bus device, and

recording data that are output from said central processing apparatus to said recording medium via said bus device.

8. The data processing method according to claim 5, wherein said bus device is a serial bus that complies to the IEEE 1394 standard, and

said initialization is a bus reset according to the IEEE1394 standard.

9. A data recording medium, on which a data processing program is recorded capable of being read by a processing computer in a data processing apparatus, which is used by being connected via a bus device to a central processing apparatus that starts an ID process for identifying the data processing apparatus when the bus device is initialized, the program causing the processing computer to function as:

a connection-detection device for detecting whether or not said data processing apparatus is connected to said central

processing apparatus via said bus device;

a state-change detection device for detecting whether or not the processing state of said data processing apparatus changes while said data processing apparatus is connected to said central processing apparatus; and

a bus initialization device for initializing said bus device when change in said processing state is detected.

10. The data recording medium according to claim 9, wherein change in said processing state is the mounting of a data recording medium for data processing in said data processing apparatus,

said state-change detection device detects whether or not said recording medium is mounted in said data processing apparatus, and

said bus initialization device initializes said bus device when said recording medium is mounted in said data processing apparatus.

11. The data recording medium according to claim 9, wherein said data processing that uses said recording medium performs at least any one of the processes of:

outputting data that are recorded on said recording medium to said central processing apparatus via said bus device, and

recording data that are output from said central processing apparatus to said recording medium via said bus device.

12. The data recording medium according to claim 9, wherein said bus device is a serial bus that complies to the IEEE 1394 standard, and

said initialization is a bus reset according to the  
IEEE1394 standard.